

HITACHI

VIDEO CASSETTE RECORDER

VT-FX630A / VT-FX530A

Owner's manual



Using these quality features:

- Super index allows you to quickly search for a program you want to view or the point from which you want to start recording on the tape.
- Super rewind and fast forward
- Multi-channel TV sound (MTS).
- 8-program/1-year preset recording.
- Auto tracking system automatically adjusts the tracking so the picture is optimized.
- Frequency synthesized tuner provides easy, preset tuning of up to 68 broadcast TV channels and 125 cable channels.
- VHS Hi-Fidelity sound in playback.
- On-screen programming guide.

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FOR YOUR SAFETY

POWER SUPPLY: AC 120V, 60 Hz ONLY.


The POWER button turns the VCR on and off, leaving the clock/timer unaffected. If the unit is to be left unattended for a long period, it is recommended that the unit be completely switched off and unplugged. Illustrated below is the label on the back of your unit.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.



This symbol alerts the user that important literature concerning the

operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING: Many television programs and films are copyrighted. In certain circumstances, copyright law may apply to private in-home videotaping of copyrighted materials.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT OF AC OUTLET AND FULLY INSERT.

Caution to the user: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

"Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical".

IMPORTANT SAFEGUARDS

In addition to the careful attention devoted to quality standards in the manufacture of your video product, safety is a major factor in the design of every instrument. But, safety is your responsibility too. This page lists important information that will help to assure your enjoyment and proper use of a Video Cassette Recorder and accessory equipment. Please read it carefully before operating your video product and keep it in a handy place for future reference.

INSTALLATION

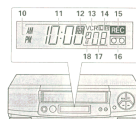
1 Read and Follow Instructions -- All the safety and operating instructions should be read before the video product is operated. Follow all operating and use instructions.



2 Retain Instruction -- The safety and operating instructions should be retained for future reference.

3 Heed Warnings -- Comply with all warnings on the video product and in the operating instructions.

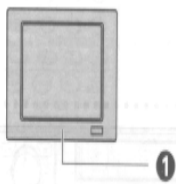
4 Polarized Plug -- This video product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. To prevent electric shock do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted without blade exposure. If you need an extension, use a polarized cord.



5 Power Sources -- This video product should be operated only from the type of power source indicated on the

marking label. If you are not sure of the type of power supply to your home, consult your video dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.

6 Overloading -- Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock. Overloaded AC outlets and extension cords are dangerous, and so are frayed power cords, damaged or cracked wire insulation and broken plugs. They may result in a shock or fire hazard. Periodically examine the cord and have it replaced by your service technician if appearance indicates damage or deteriorated insulation.



7 Power Cord Protection -- Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

8 Ventilation -- Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the video product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the video product on a bed, sofa, rug or other similar surface. This video product should never be placed near or over a radiator or heat register. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the video product manufacturer's instructions have been followed.



9 Attachments -- Do not use attachments unless recommended by the video product manufacturer as they may cause hazards.

Caution: Maintain electrical safety. Powerline operated equipment or accessories connected to this unit should bear the UL listing mark or CSA certification mark on the accessory itself and should not have been modified so as to defeat the safety features. This will help avoid any potential hazard from electric shock or fire. If in doubt, contact qualified service personnel.

10 Water and Moisture -- Do not use this video product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

11 Accessories -- Do not place this video product on an unstable card, stand, tripod, bracket or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer, or sold with the video product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

11A An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



12 Outdoor Antenna Grounding -- If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See example below.

EXAMPLE OF ANTENNA GROUNDING

13 Power Lines -- An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching or approaching such power lines or circuits as contact with them might be fatal. Installing an outdoor antenna can be hazardous and should be left to a professional antenna installer.

USE

14 Cleaning -- Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

15 Object and Liquid Entry -- Never push objects of any kind into this video product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.



16 Lightning -- For added protection for this video product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable-system. This will prevent damage to the video product due to lightning and power-line surges.



SERVICE

17 Servicing -- Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

18 Conditions Requiring Service -- Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions.

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the video product.
- If the video product has been exposed to rain or water.
- If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
- If the video product has been dropped or the cabinet has been damaged.
- When the video product exhibits a distinct change in performance - this indicates a need for service.

19 Replacement Parts -- When replacement parts are required, have the service technician verify that the replacements he uses have the same safety characteristics as the original parts. Use of replacements specified by the video product manufacturer can prevent fire, electric shock or other hazards.

20 Safety Check -- Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks recommended by the manufacturer to determine that the video product is in safe operating condition.

CUSTOMER CONTROLS

VCR Customer Controls

VCR Front Panel Controls

VCR Display Panel

Item No.	Function	Page
1	POWER button	2
2	Infrared receiver	8
3	Cassette compartment	9
4	STOP/EJECT button	9
5	PLAY button	22
6	F.FWD button	23
7	REW button	23
8	REC button	33
9	CHANNEL (channel up/down)/ TRACKING buttons	23 30
	LED Indicator	
10	POWER indicator	22
11	TIMER (delayed recording) indicator	38
12	REC - recording indicator	
13	VCR - operate mode indicator	33
		--

Accessories supplied

Check and indentify the accessories supplied.
If any are missing or appear damaged, consult your dealer.



Remote control



Cable for connecting
this VCR to a TV



2 pcs.

Batteries for remote
control handset (R6)

VCR Customer Controls

VCR Rear Panel

Item No.	Function	Page
14	<u>AUDIO IN L, R jacks</u>	<u>41</u>
15	<u>VIDEO IN jack</u>	<u>43</u>
16	<u>IN FROM ANT. - signal input</u>	<u>10</u>
17	<u>OUT TO TV - signal to TV</u>	<u>10</u>
18	<u>VIDEO OUT jack</u>	<u>11</u>
19	<u>AUDIO OUT L, R jacks</u>	<u>11</u>

Remote Control Customer Controls

Remote Control

Item No.	Function	Page
1	Transmission window	8
2	POWER button	19
3	TAPE SPEED button - select the recording speed SP or EP.	32
4	VOL button - increase or decrease the audio volume	40
5	SLOW button - for slow motion picture	25
6	REW button - fast rewind or search	22
7	STOP button - stops play/record function	22
8	GUIDE - to recall OSD menu	19
9	DISP- to recall on-screen display	30
10	PROGRAM (programming) button	36
11	CLEAR - clears time counter	31
12	REC - record button	33
13	100/ENT button	32
14	VCR, TV- Device buttons let you set the remote to control one of the two devices.	8
	VCR/TV mode select button	
15	CH (channel up/down) button	10
16	PAUSE button	32
17	F.FWD button - fast forward or search	24
18	PLAY button - playback	25
19	SUPER INDEX - to use the	22
20	SUPER INDEX function	27
21	Number buttons	19
22	AVX button - select LINE	41

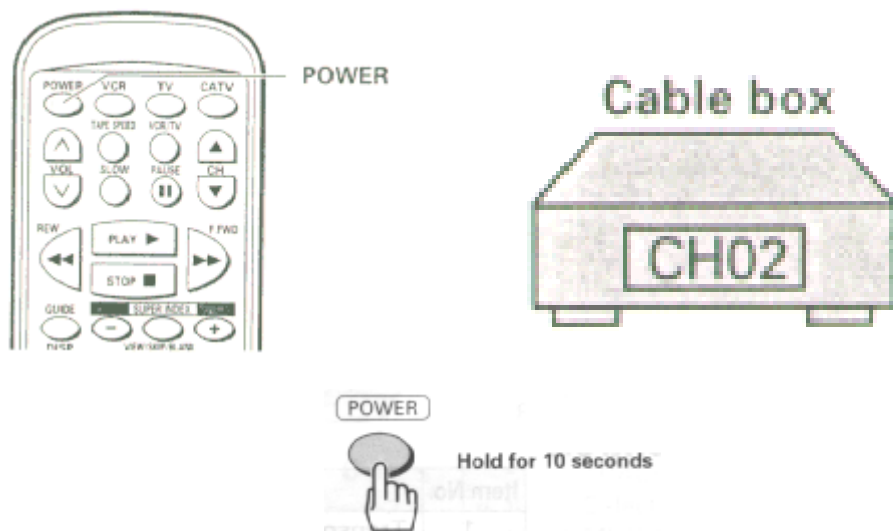
REMOTE OPERATION

● Install batteries in the remote control

The remote control requires two "AA" batteries.

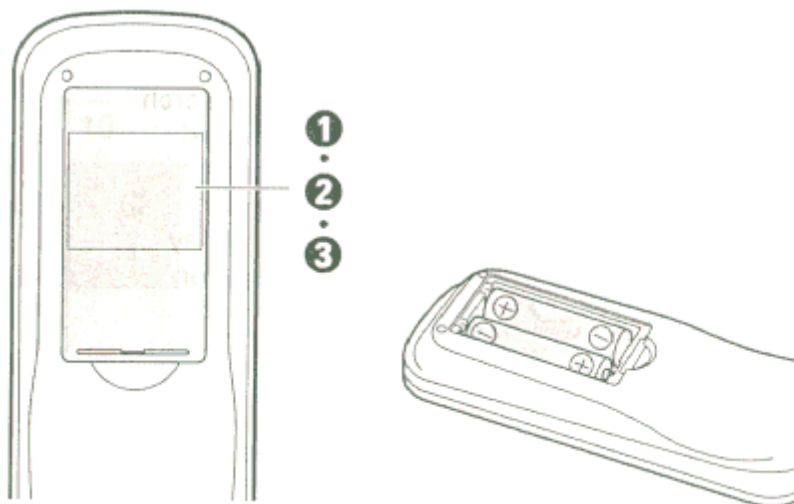
1 Insert your fingertip into the notch and push the battery compartment lid to remove it.

Note: When replacing the batteries, remove the old batteries and keep the POWER button depressed for 10 seconds before inserting fresh batteries.

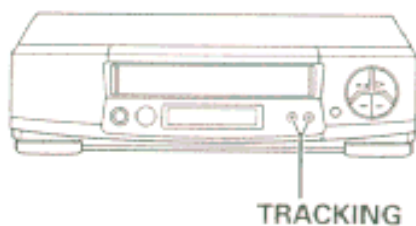


2 Install batteries.

- Align the positive (+) and negative (-) polarity marks on the batteries with those indicated on the remote control.



3 Replace the lid.



● Operating in the remote control

Operating the VCR:

- Make sure there is no obstacle between the remote control and VCR's infrared receiver.
Infrared Receiver

Note: You cannot operate the VCR if there is an obstacle (for example, coffee table, sofa, etc) between the VCR

and remote control.

2 Point the remote control at the VCR's infrared receiver and press the required button on the remote control.

Note: If the remote does not work even at close range, try replacing the batteries with two fresh "AA" batteries.

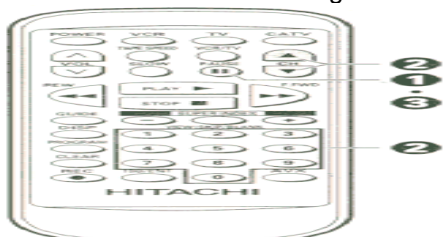
CASSETTE TAPES

• Types

Only use video cassettes with the  mark in this VCR.

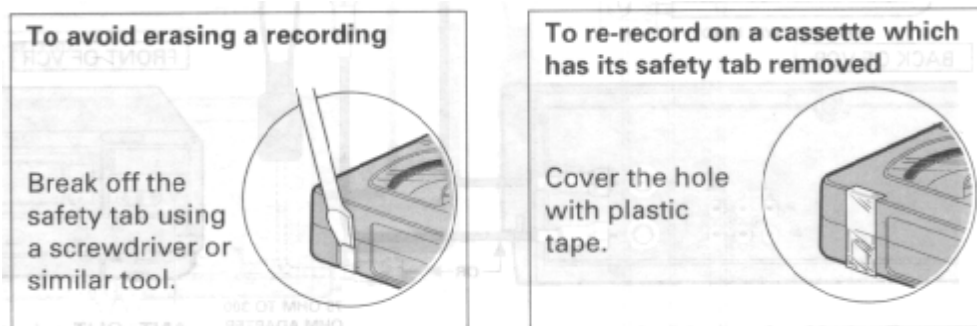


The table shows the recording time of different cassettes.



- To get the best quality picture record at standard recording speed (SP)
- This VCR does not record at the LP speed, but it can play cassette that were recorded at the LP speed.

• Safety tabs prevent erasure

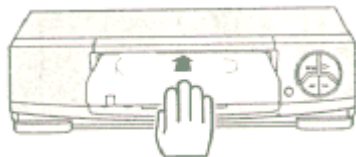


The VCR automatically enters the playback mode when a cassette without its safety tab is inserted. **The VCR won't record on a tape without a safety tab and the cassette will be ejected if the REC or REC/IRT button is pressed.** Be sure to check the safety tab before inserting a cassette.

• Insertion

Push the video cassette gently into the slot on the front of the VCR.

- The VCR automatically turns on and the POWER indicator and also the VCR indicator on the VCR will light up.

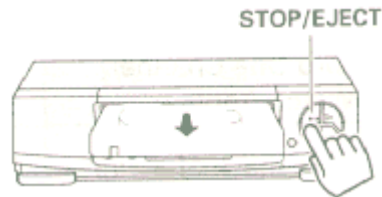


● Removal

Press the STOP/EJECT button on the VCR.

The cassette will come partially out of the compartment so you can pull it out.

- The cassette can be ejected with the power on or off.



BASIC ANTENNA HOOKUP [A] WITH THIS HOOKUP

YOU CAN...

- WATCH AVAILABLE TV CHANNELS
- RECORD AND WATCH THE SAME CHANNEL
- RECORD ONE CHANNEL AND WATCH ANOTHER

Hook-up A Illustration

TABLE A

FUNCTION	CHANNEL SELECTION		VCR indicator (Press the VCR/TV mode select button to turn the VCR indicator on or off.)
	TV	VCR	
Select and Watch Channels using TV	Select Channel to Watch		OFF (TV mode)
Select and Watch Channels using VCR	3 or 4	Select Channel to Watch	ON (VCR mode)
Record and Watch the Same Channel	3 or 4	Select Channel to Record	ON (VCR mode)
Record One Channel Watch Another	Select Channel to Watch	Select Channel to Record	OFF (TV mode)
Watch Playback of a Tape	3 or 4		ON (VCR mode)

Switch the RF Channel

When the VCR is on, its video signal can come into your TV on either channel 3 or channel 4. You need to select the appropriate channel.

- When the power is turned on, press the POWER button to turn it off. Press the PLAY button on front of the VCR. The POWER indicator will light up and the VCR indicator will flash. Press the CHANNEL ▲ button alternates between channel 3 and channel 4. The VCR will stop flash. If within 30 seconds, the CHANNEL ▲ button not been press, the VCR will terminate the selection of RF Channel.

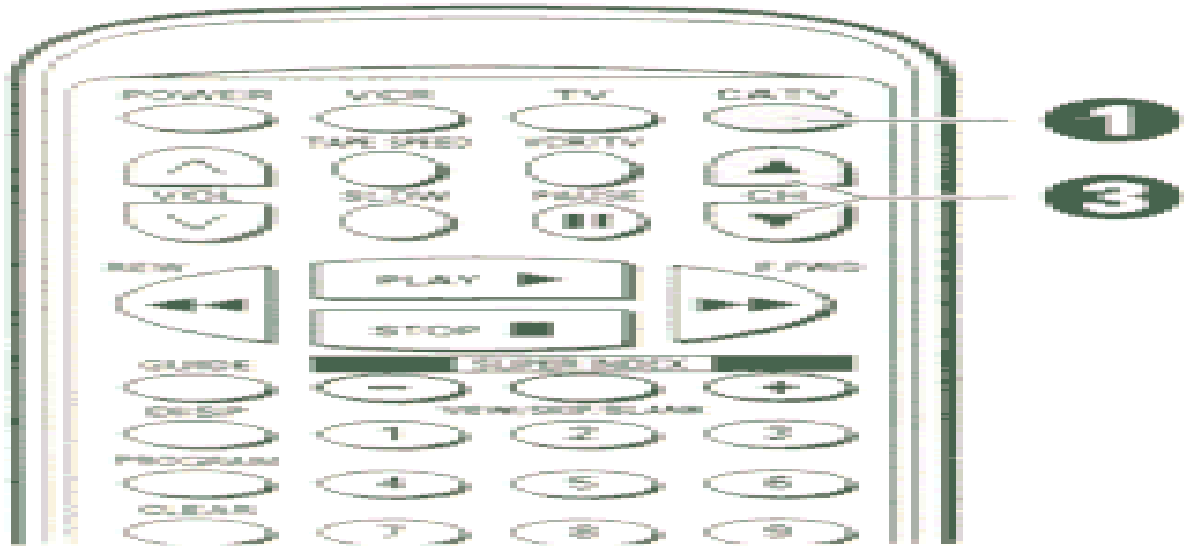
ADVANCED ANTENNA HOOKUP -AV HOOKUP [B] WITH THIS HOOKUP

YOU CAN...

- WATCH AVAILABLE TV CHANNELS
- RECORD AND WATCH THE SAME CHANNEL

• RECORD ONE CHANNEL AND WATCH ANOTHER

Hookup B Illustration



BASIC CABLE HOOKUP [C]

WITH THIS HOOKUP

YOU CAN...

- WATCH AVAILABLE CABLE CHANNELS
- RECORD AND WATCH THE SAME CHANNEL
- RECORD ONE CHANNEL AND WATCH ANOTHER

Hookup C Illustration

TABLE C

FUNCTION	CHANNEL SELECTION		VCR indicator (Press the VCR/TV mode select button to turn the VCR indicator on or off.)
	TV	VCR	
Select and Watch Cable Channels using TV	Select Channel to Watch		OFF (TV mode)
Select and Watch Cable Channels using VCR	3 or 4	Select Channel to Watch	ON (VCR mode)
Record and Watch the Same Channel	3 or 4	Select Channel to Record	ON (VCR mode)
Record One Channel Watch Another	Select Channel to Watch	Select Channel to Record	OFF (TV mode)
Watch Playback of a Tape	3 or 4		ON (VCR mode)

Switch the RF Channel

When the VCR is on, its video signal can come into your TV on either channel 3 or channel 4. You need to select

the appropriate channel.

- When the power is turned on, press the POWER button to turn it off. Press the PLAY button on front of the VCR. The POWER indicator will light up and the VCR indicator will flash. Press the CHANNEL ▲ button alternates between channel 3 and channel 4. The VCR will stop flash. If within 30 seconds, the CHANNEL ▲ button not been press, the VCR will terminate the selection of RF Channel.

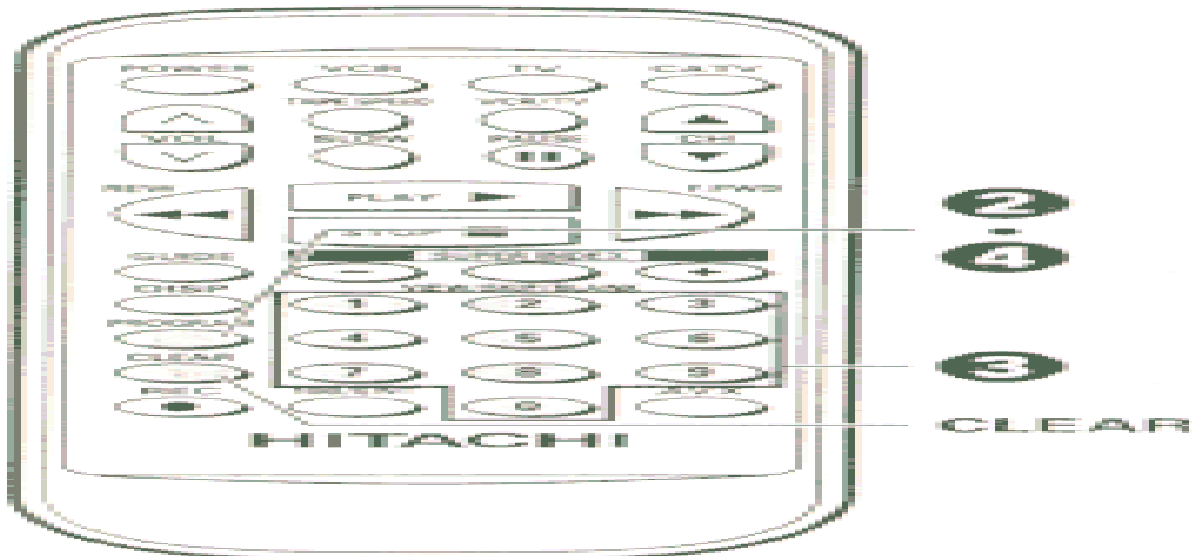
ADVANCED CABLE HOOKUP -AV HOOKUP [D]

WITH THIS HOOKUP

YOU CAN...

- WATCH AVAILABLE CABLE CHANNELS
- RECORD AND WATCH THE SAME CHANNEL
- RECORD ONE CHANNEL AND WATCH ANOTHER

Hookup D Illustration



BASIC CABLE HOOKUP -WITH CABLE BOX [E]

WITH THIS HOOKUP

YOU CAN...

- WATCH AVAILABLE CABLE CHANNELS
- RECORD AND WATCH THE SAME CHANNEL

YOU CAN'T...

- RECORD ONE CHANNEL AND WATCH ANOTHER

ALL CHANNEL SELECTIONS MUST BE MADE AT THE CABLE BOX.
BE SURE TO CONSULT YOUR CABLE BOX MANUAL FOR THE CABLE BOX OUTPUT CHANNEL.

Hookup E Illustration

TABLE E				
FUNCTION	CHANNEL SELECTION			VCR indicator (Press the VCR/TV mode select button to turn the VCR indicator on or off.)
	TV	VCR	CABLE BOX	
Watch Cable Channels on TV	Select Cable Box Output Channel		Select Channel to Watch	OFF (TV mode)
Select and Watch Cable Channels using VCR	3 or 4	Select Cable Box Output Channel	Select Channel to Watch	ON (VCR mode)
Record and Watch the Same Channel	3 or 4	Select Cable Box Output Channel	Select Channel to Watch	ON (VCR mode)
Record One Channel Watch Another				
Watch Playback of a Tape	3 or 4			ON (VCR mode)

Switch the RF Channel

When the VCR is on, its video signal can come into your TV on either channel 3 or channel 4. You need to select the appropriate channel.

- When the power is turned on, press the POWER button to turn it off. Press the PLAY button on front of the VCR. The POWER indicator will light up and the VCR indicator will flash. Press the CHANNEL ▲ button alternates between channel 3 and channel 4. The VCR will stop flash. If within 30 seconds, the CHANNEL ▲ button not been press, the VCR will terminate the selection of RF Channel.

ADVANCED CABLE HOOKUP -WITH CABLE BOX [F]

WITH THIS HOOKUP

YOU CAN...

- WATCH AVAILABLE CABLE CHANNELS
- RECORD AND WATCH THE SAME CHANNEL

YOU CAN'T...

- RECORD ONE CHANNEL AND WATCH ANOTHER

ALL CHANNEL SELECTIONS MUST BE MADE AT THE CABLE BOX.

BE SURE TO CONSULT YOUR CABLE BOX MANUAL FOR THE CABLE BOX OUTPUT CHANNEL.

Hookup F Illustration

.....

TABLE F				
FUNCTION	CHANNEL SELECTION			VCR indicator (Press the VCR/TV mode select button to turn the VCR indicator on or off.)
	TV	VCR	CABLE BOX	
Watch Cable Channels on TV	Select Cable Box Output Channel		Select Channel to Watch	OFF (TV mode)
Select and Watch Cable Channels using VCR	AUX or VIDEO	Select Cable Box Output Channel	Select Channel to Watch	
Record and Watch the Same Channel	AUX or VIDEO	Select Cable Box Output Channel	Select Channel to Record	
Record One Channel Watch Another				
Watch Playback of a Tape	AUX or VIDEO			

ADVANCED CABLE HOOKUP -WITH CABLE BOX AND SPLITTER [G] WITH THIS HOOKUP

YOU CAN...

- WATCH AVAILABLE CABLE CHANNELS
- RECORD AND WATCH THE SAME CHANNEL
- RECORD ONE CHANNEL AND WATCH ANOTHER

TO RECORD, ALL CHANNEL SELECTIONS MUST BE MADE AT THE CABLE BOX.
BE SURE TO CONSULT YOUR CABLE BOX MANUAL FOR THE CABLE BOX OUTPUT CHANNEL.

Hookup G Illustration

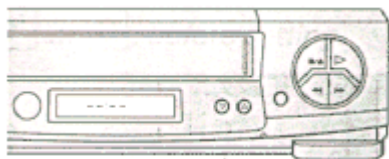
TABLE G				
FUNCTION	CHANNEL SELECTION			VCR indicator (Press the VCR/TV mode select button to turn the VCR indicator on or off.)
	TV	VCR	CABLE BOX	
Watch Cable Channels on TV	Select Channel to Watch			
Select and Watch Cable Channels using VCR	AUX or VIDEO	Select Cable Box Output Channel	Select Channel to Watch	
Record and Watch the Same Channel	AUX or VIDEO	Select Cable Box Output Channel	Select Channel to Watch	
Record One Channel Watch Another	Select Channel to Watch	Select Cable Box Output Channel	Select Channel to Record	
Watch Playback of a Tape	AUX or VIDEO			

SETTING THE CLOCK

Note: An antenna or cable must be connected to the VCR before you begin this operation.

• Tips

You'll need to set the clock when first hooking up your VCR, and any time the power goes out for more than 1 hour. When you first plug in the VCR or after a power outage, the clock display will read "---:--" on the TV display..



1 Press the **GUIDE** button.

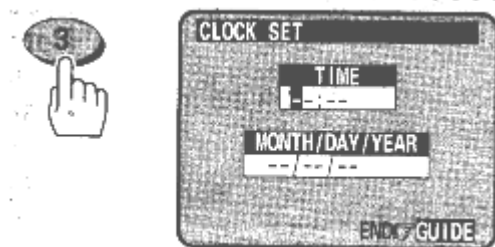
The main on-screen menu will appear on the TV screen.

You may view all the on-screen instructions in English, French, or Spanish. When you first set up your VCR, it will be set to English. Press the (8) button for French or the (9) button for Spanish.

Remote Control Illustration.



2 Press the (3) button to bring up the **CLOCK SET** menu.

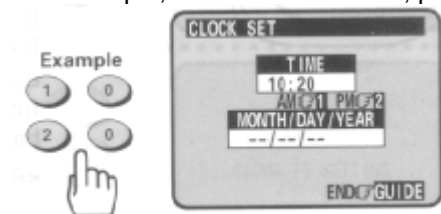


- The white dash "-" appears for the item to be changed on the screen as you proceed.

3 Press the number buttons to fill the hour and minutes.

- For times with only one number (1-9) press the (0) button first, then the hour or minute.

For example, if it is now 10:20AM, press (1)(0)(2)(0). "AM" and "PM" will now appear on the screen.

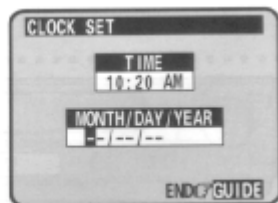


Remote Control Illustration.

4 Press the (1) button for **AM** or (2) for **PM**.

For example, press the (1) button for AM.

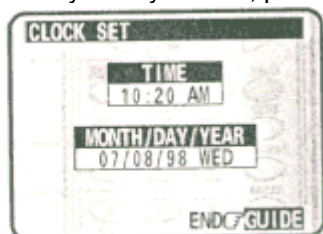
Example



5 Press the number buttons to fill in the number of the month, then the day then the year.

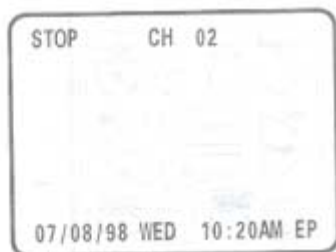
- For dates with only one number (1-9) press the (0) button first, then the date.

For example, if today is July 8 1998, press (0)(7)(0)(8)(9)(8). The correct day of the week will appear by itself.



6 Press the GUIDE button.

The VCR clock is now set, and if you press the DISP button, the correct time of the day appears on the TV screen.



Notes:

- The clock uses the 12-hour system. You set it for AM or PM.
- An illogical time (like 13 for the hour or 20 for the month) will not be accepted.
- If you press the wrong digit, exit the screen by pressing GUIDE and recall the screen to enter the correct setup.

PRE-TUNING THE VCR TUNER

Note: An antenna or cable must be connected to the VCR before you begin this operation.

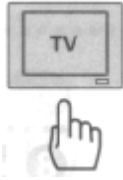
**● Presetting the received channels without using a cable box
(Hookups [A], [B], [C] or [D])**

1 Press the POWER button to turn on the VCR.



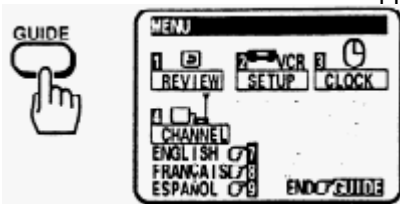
2 Turn on the TV and select the video channel (3 or 4).

Or, if you are hooked up with an audio/video cable, set the TV to AUX or VIDEO.



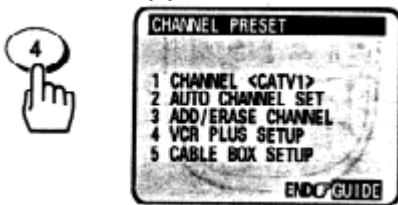
3 Press the GUIDE button.

The main on-screen menu will appear on the TV screen.

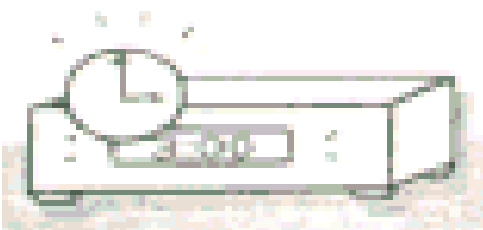


Remote Control Illustration.

4 Press the (4) button to select the CHANNEL PRESET operation.



5 Press the (1) button to select the type of receiving setup you have:



- <CATV1> Ordinary cable
- <ANT> Internal or external antenna
- <CATV2> Alternate cable (If CATV1 doesn't give you the channels you expect).

6 Press the (2) button.

The VCR will automatically store channels received in your area. It takes about 2 - 3 minutes. After the channels are stored in memory, the channel with the lowest number appears in the VCR's display.



7 Press GUIDE to return to regular viewing.

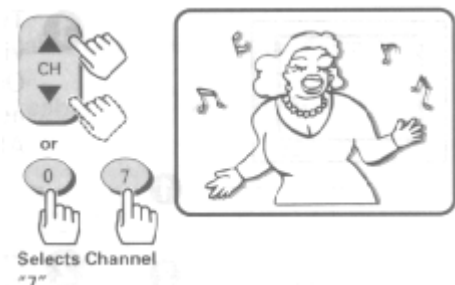


Note: Your VCR is capable of receiving 68 broadcast TV channels (VHF 2-13, UHF 14-69) and cable channels (1-125). In some areas channels cannot be received when CATV1 is selected. In this case, select CATV2 in the receiving setup.

● When automatic presetting of channels are finished

Press the CH (channel) button (or numbered buttons) to check the channels you can receive.

Note: If no channels have been set or a clear picture does not appear, check the antenna or cable connection.

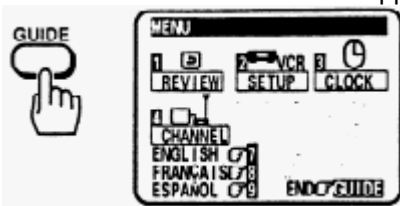


● To add or erase channels

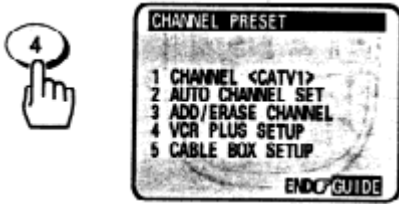
The auto channel set procedure may memorize channels that are blank, have snowy pictures, or interference. You may skip these channels by erasing them. Very weak stations might not be memorized at all. You may receive these stations by adding them.

1 Press the GUIDE button.

The main on-screen menu will appear on the TV screen.



2 Press the (4) button to select the CHANNEL PRESET operation.

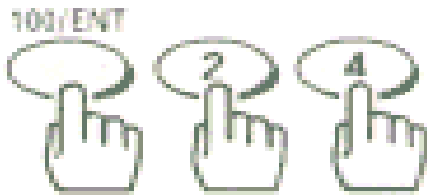


Remote Control Illustration.

3 Press the (3) button to select "ADD/ERASE CHANNEL".



4 Use the number buttons to select the number of the channel you want to add or erase.



5 Press the STOP button to delete the channel, or press the PLAY button to add it.



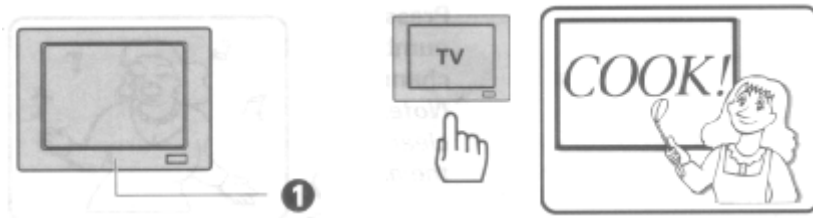
6 Press the GUIDE button to return to regular viewing.



● Auto blue setting

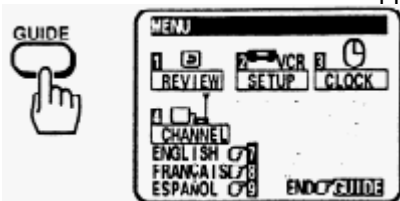
1 Turn on the TV and select the video channel (3 or 4).

Or, if you are hooked up with an audio/video cable, set the TV to AUX or VIDEO.



2 Press the GUIDE button.

The main on-screen menu will appear on the TV screen.



3 Press the (2) button to select "VCR SETUP".



Remote Control Illustration.

4 Press the (1) button to select AUTO BLUE "ON" or "OFF".



ON: The screen becomes blue and mutes sound when a channel without a broadcast signal on the VCR or a channel on which broadcasting has finished.

- If the signal is too strong, this function may not operate even if you specify <ON>. During playback this function does not operate.

OFF: The AUTO BLUE feature is switched off.

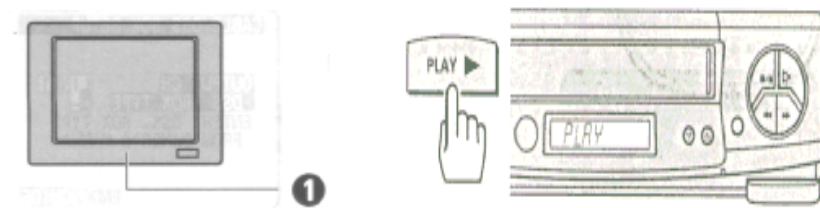
5 Press the GUIDE button to end the setting.



● To playback a recorded tape

1 Turn on the TV and select the video channel (3 or 4).

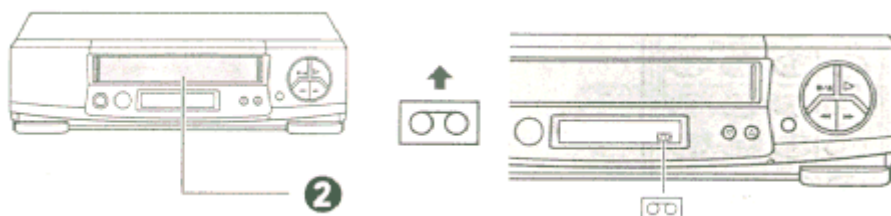
Or, if you are hooked up with an audio/video cable, set the TV to AUX or VIDEO.



2 Insert a recorded tape.

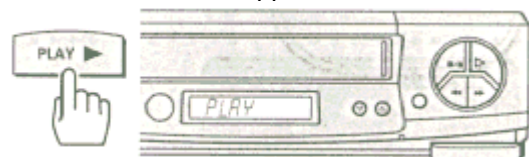
The power comes on automatically and the POWER indicator and also VCR indicator on the VCR will light up.

- When a cassette without its safety tab is inserted, playback starts automatically.



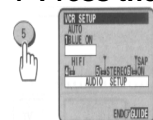
3 Press the PLAY button to start playing the tape.

The PLAY mode will appear on the screen.



Remote Control Illustration.

4 Press the STOP button to end playback.



● Rewinding the tape

When the video cassette reaches the end of the tape, the VCR will stop automatically and automatically rewind the tape.

- If you press the POWER button while the tape is rewinding, the power will not shut off until the tape has been completely rewound.

You may also rewind the tape manually at any time.

Manual Rewind

1 Press the STOP button to end playback.

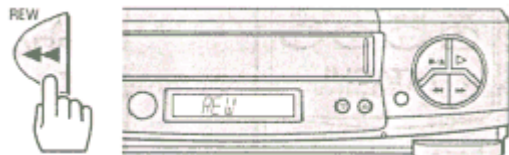


Remote Control Illustration.

2 Press the REW button.

The VCR rewinds the tape all the way to the beginning, then stops.

- Press the EJECT button on the VCR to eject the tape.



Movie Return

If your videocassette has the safety tab removed, the VCR will stop and automatically rewind the videocassette, eject it, and turn off the power when it reaches the end of the tape or blank section of the tape which lasts for more than 30 seconds.

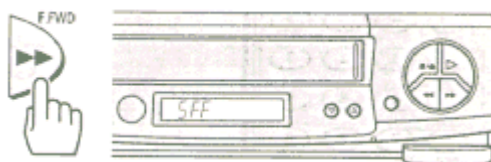
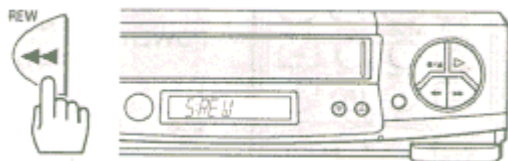
Note: This function works only in PLAYBACK mode, not in RECORDING mode.

● Rewinding or fast forwarding a tape at high speed

This function rewinds or fast-forwards T-120 tape for about 83 seconds. This time period will vary for different types of tape.

Press the REW or F.FWD button, then press it again.

To stop the tape, press the STOP button.



Remote Control Illustration.

Note: During super rewind/fast-forward, there will be an interval of 5 seconds between the time the STOP button is pressed and the time the tape actually stops. This is designed to protect the tape. To stop the tape earlier, press the REW or F.FWD button to restore the normal rewind/fast-forward speed, then press the STOP button.

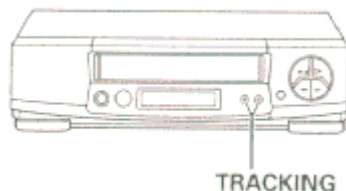
● To remove noise from the picture

Auto Tracking

Pressing the PLAY button starts the auto tracking feature, which automatically adjusts playback to eliminate static lines or picture noise that may appear on the screen.

Manual Tracking

Scratched tapes or poorly recorded tapes may require additional picture adjustment. You can do this with the remote control.



Remote Control Illustration.

Note: To reactivate auto tracking, simply eject the tape and reinsert it into the VCR.

Press the CH (▲ or ) button on the remote control or TRACKING button on the VCR when viewing a cassette.

Press either the ▲ or  buttons until picture is clear.



or



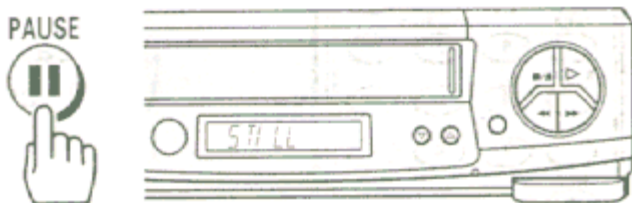
SPECIAL PLAYBACK EFFECTS

● Variable speed playback

Still Playback (Pause)

Press the PAUSE button on the remote control to still the tape during play.

Remote Control Illustration





The picture will "freeze". You may see some minor noise or interference on the screen. This is normal.

- To resume play, press the PLAY button or PAUSE button again.

Note: The sound is muted and cannot be heard during "Special Playback Effects".

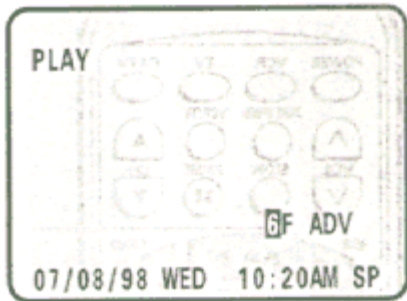
Notes:

- After 1 minute in the PAUSE mode, the VCR automatically switches to STOP mode to protect the tape.
- If noise bars appear on the TV screen during the PAUSE mode, first set the VCR to the SLOW mode by pressing the (4) button during playback and then press the CH (▲ or ) button on the remote control to minimize the noise bars (see page 25).
- If the screen jitters during PAUSE, press the CH (▲ or ) button to minimize the jitter.

If you press the DISP button when viewing a video cassette, the display, as shown, appears for several seconds so you can see the functions of the number buttons on the remote control.

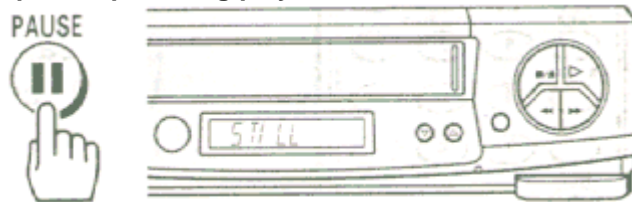
Number (6) button: Frame advance

- The above function always work when you are viewing a video cassette even if the display, as shown, is not displayed.



Frame Advance

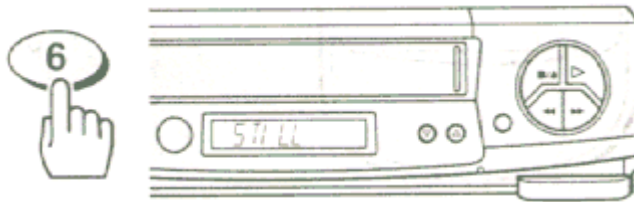
- 1 Press the PAUSE button to stop the tape during playback.



Remote Control Illustration.

- 2 Press the (6) button to view the picture one frame at a time.

- Press the PAUSE button to resume play.



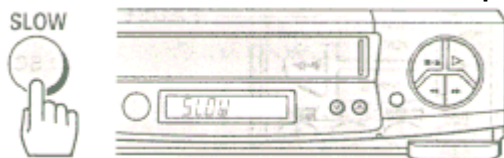
Slow motion

- 1 Press the PLAY button.



Remote Control Illustration.

- 2 Press the SLOW button to slow the playback speed.



- 3 Press the PLAY button to return to play back at normal speed.



Press the **STOP** button to stop the tape.

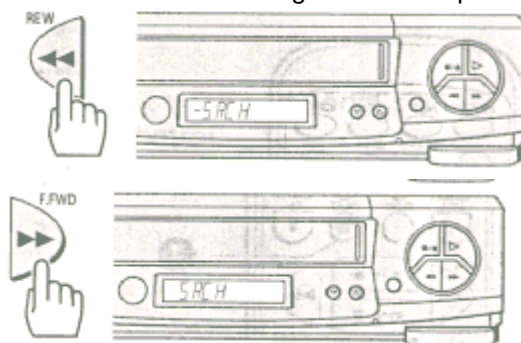
Notes:

- Use the CH (▲ or ■) button to minimize any visual noise bands on the screen.
- After 1 minute in slow motion playback, the VCR will stop the tape automatically to prevent damage to the tape and VCR.

Visual Search

This function let you search backward and forward through the videotape while viewing it.

Remote Control Illustration.



During play:

Press the REW button to search in reverse.

Press the F.FWD button to search ahead.

- Press the PLAY button to return to normal playback.

Press REW or F.FWD and hold it; you can search backward or forward through the tape at a higher speed while viewing it.

- Press PLAY and REW, then hold REW for backward search at a higher speed.
- Press PLAY and F.FWD, then hold F.FWD for forward search at a higher speed.
- Release REW or F.FWD to return to normal playback.

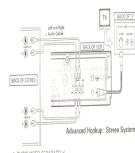
● Choosing a mode for audio playback

The VCR records the same audio on both the Hi-Fi and linear tracks on the tape. The Hi-Fi sound is recorded on separate left and right stereo channels. Monaural sound is recorded on the linear track.

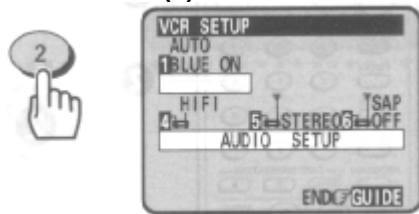
To enjoy Hi-Fi sound, connect your VCR to a stereo television or amplifier/receiver using the audio/video jacks (see page 41).

How to select playback audio

1 Press the GUIDE button.



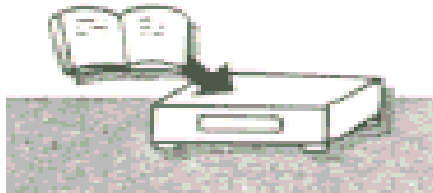
2 Press the (2) button to select the VCR SETUP operation.



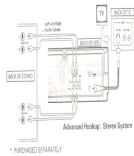
Remote Control Illustration.

3 Press the (4) button to select "HIFI" or "LINEAR".

- Select **Hi-Fi** to playback sound recorded on the Hi-Fi track and for normal use.
- Select **LINEAR** to play back the sound recorded on the linear monaural track. Also, if the audio sounds distorted or unusual or there is no audio, select LINEAR.



4 Press the GUIDE button to end the setting.



USING THE "SUPER INDEX" FEATURE

● What is SUPER INDEX

SUPER INDEX allows you to quickly search for a program or a scene you want to view or the point from which you want to start recording on tape, with the following four functions:

- **INDEX SEARCH:** You can locate the beginning of a recorded program, using the INDEX feature*.

* Each time you press the REC or REC/IRT button to start recording, the VCR will record an INDEX mark at the start of recording. The INDEX feature uses this signal recorded on tapes (VISS signal) to locate the beginning of a program you want to view.

- **BLANK SEARCH:** You can locate the beginning of a blank (non-recorded) section on tape.
- **EASY VIEW:** This switches fast forward or rewind to visual search so that you can search for a scene you want to view while scanning the pictures
- **SKIP PLAY:** You can skip unnecessary scenes during play.

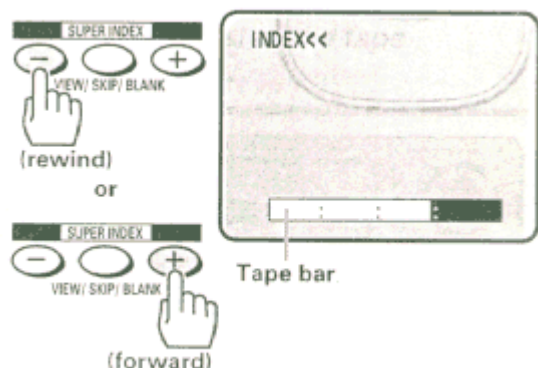
● Locating the beginning of a recorded program (INDEX SEARCH)

NOTE: This function only works with recordings that have been set up with indexing.

Remote Control Illustration.

1 Press the (-) button for rewind or the (+) button for forward to begin the index search in the STOP

mode.



- The INDEX search screen is displayed, and the tape rewinds or fast forwards until an index mark is detected.
- A black square in the tape bar shows the current tape position.
- When the VCR finds an index mark; it plays 15 seconds of the program that begins at that spot.

NOTE: Tape bar will not appear correctly if the tapes have scratches or are slack are being used.

2 If this is the program you were looking for press the PLAY button for normal playback.

- To stop the index search before an index mark is reached, press the STOP button.



Note: If there are no index marks on the tape, the VCR will just rewind to the beginning or fast forward to the end.

● Locating the beginning of a blank section (BLANK SEARCH)

This function searches for a non-recorded section of remaining tape, or unused tape, and stops the tape when it locates such a section.

NOTES:

BLANK SEARCH cannot be operated with a cassette without a safety tab.

BLANK SEARCH may not operate when a blank section lasts no more than five minutes.

BLANK SEARCH will not be engaged in the following sections since they are not recognized as blanks:

Sections with noise

Sections where only sound has been recorded

Sections where previous recordings have been erased

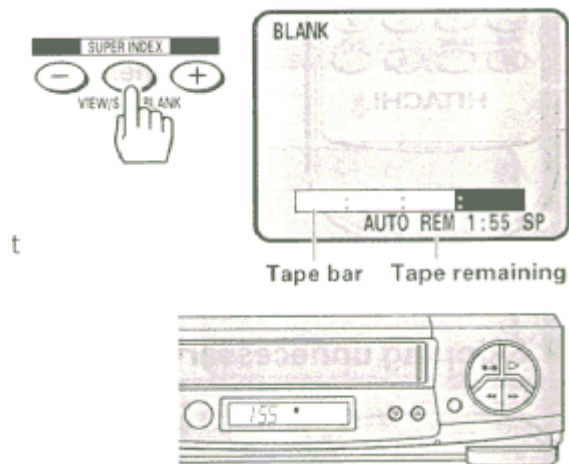
Remote Control Illustration.

1 Press the (VIEW/SKIP/BLANK) button in the STOP mode.

The BLANK SEARCH screen will appear and the tape will fast forward automatically

- The blank which is the nearest the current tape position is searched for.
- The blank square in the tape bar shows the current tape position.
- The tape remaining time appears on the screen and VCR display during BLANK SEARCH.

- When a blank is detected, the tape will automatically rewind to the beginning of the blank.

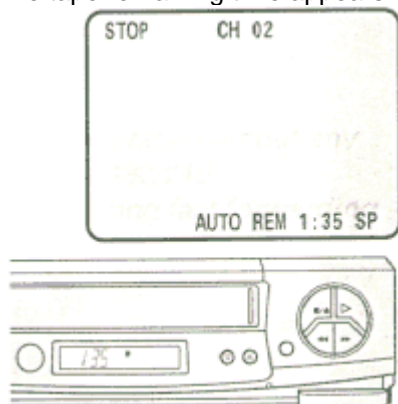


Notes:

- When a cassette without a safety tab is inserted, the cassette will be ejected automatically.
- Tape bar will not appear correctly if tapes which have scratches or are slack are being used.


When the beginning of blank is located, the STOP screen will appear for five seconds and the tape will stop.


- The tape remaining time appears in the VCR display.




Note: Make sure that the tape is at the beginning of blank before you start recording or editing.

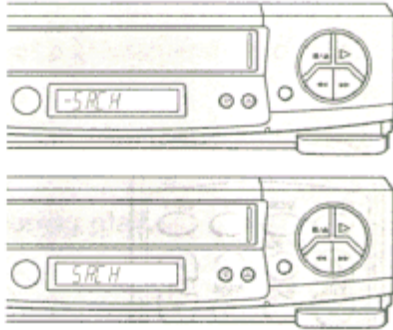
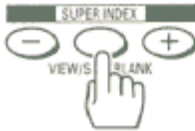
● Switching rewind or fast forward to visual search (EASY VIEW)

Hold down the  (VIEW/SKIP/BLANK) button during rewind (or fast forward), and the mode will switch to visual search, so that you can search for a scene you want to view while scanning pictures.

Hold down the  (VIEW/SKIP/BLANK) button during rewind:
The tape will be visually scanned in the reverse direction while the button is held.


Hold down the  (VIEW/SKIP/BLANK) button during fast forward:
The tape will be visually scanned in the forward direction while the button is held.

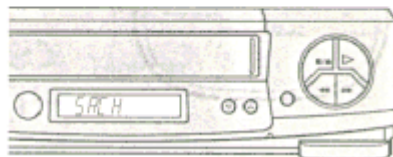
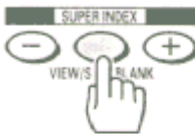
- When the button is released, the tape will rewind or fast forward again.



Remote Control Illustration.

● **Skipping unnecessary scenes (SKIP PLAYBACK)**

While playing back your tape you can skip forward by pressing the  (VIEW/SKIP/BLANK) button. The tape will search ahead for about a minute and then resume playing.



Remote Control Illustration.

VIEWING THE ON-SCREEN DISPLAY

● **Switching between the clock, time counter and time of remaining tape**

Press DISP while the on-screen display is displayed. The on-screen display switches in the order below.

Press the DISP button to see the clock.

Remote Control Illustration.

Press the DISP button a second time to see just the time counter.

On-screen Display Illustration

Notes:

- The linear time counter operates only if there is something recorded on the tape.
- The counter changes to 0:00:00 when the tape is ejected.

Press the DISP button a third time to see the tape remaining time.

On-screen Display Illustration

Note: Immediately after the tape is inserted, "--:--" will appear. 2 minutes after playback or recording is started, the tape remaining time is displayed. Press the CLEAR button repeatedly to switch the type of tape is used. The correct remaining time will appear.

AUTO: T-120 or shorter tape

T-160: T-140 or T-160 tape

T-180: T-180 tape

T-210: T-210 tape

Notes:

- The tape remaining time is not displayed correctly for a tape without any recordings or tapes other than T-30/60/90/120/140/160/180/210.
- The remaining time may not be displayed correctly during fast forwarding or rewinding.

INDEXING WITH THE TIME COUNTER

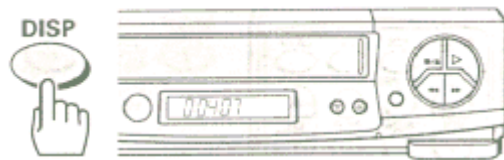
● To find specific sections on a tape

Indexing with the Time Counter

You can set the time counter to memorize a certain point in the video programming, and you can return to that point automatically.

1 Press the DISP button two or three times.

The counter will appear in the VCR's display.



Remote Control Illustration.

2 Begin recording or playing back a tape.

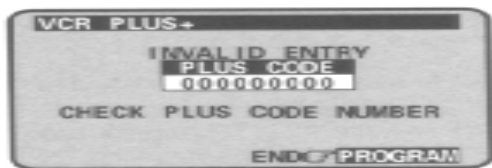


3 At the point that you want to go back to, press the CLEAR button.

This resets the counter to 0:00:00.



4 Press the STOP button when you are done recording or playing back the tape.



5 Press the REW button to rewind the tape.

It will automatically stop at the spot where you cleared the counter in step 3.

- Press the PLAY button to watch the tape from the selected spot.



Notes:

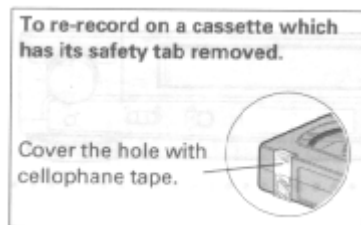
- Press the DISP button to turn the counter display off. The selected spot will stay in memory until you set a new one or until the tape is ejected.
- During super rewind/fast forward, the tape does not stop automatically even if the counter reads "0:00:00".

RECORDING A PROGRAM

• Before you record

Note: The cassette safety tab must be in place in order to record.

The VCR must be hooked up properly for recording. See the Simple Hookups at the beginning of this manual.



Copyright infringement warning

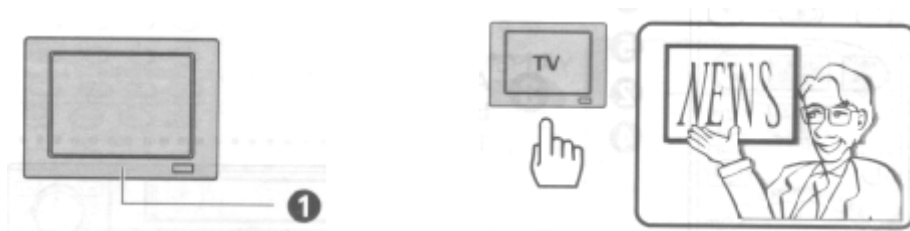
Most television programs and films are copyrighted. This means that someone has legal rights governing the reproduction and distribution of this material. In certain circumstances, copyright law may apply to private in-home taping of copyrighted materials. In most cases, it is okay to record for personal use, as long as you do not sell the material. You must act responsibly in this area - check into the matter if you are unsure.

• Basic recording steps

Note: You may use a blank tape or you may record over a previously recorded (erasable) tape.

1 Turn on TV and select the video channel (3 or 4).

Or, if you are hooked up with an audio/video cable, set the TV to AUX or VIDEO.

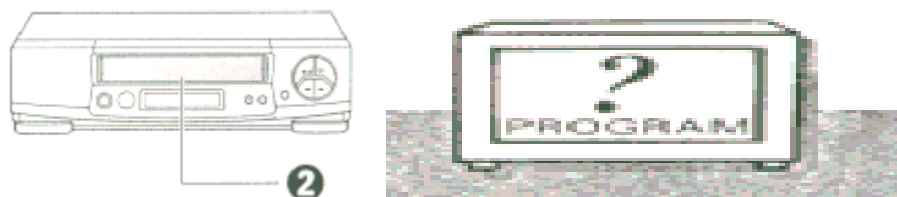


.....

2 Insert a blank or erasable tape.

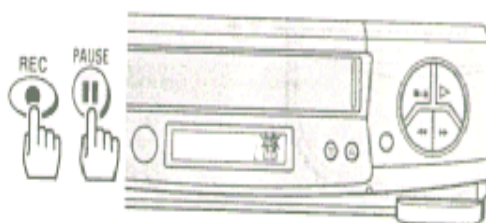
The power comes on automatically and the tape indicator lights on the display.

- If a cassette without its safety tab is inserted, playback starts automatically, and you cannot complete the record operation.



.....

3 Press the TAPE SPEED button to select SP (standard play, for the best picture quality) or EP (extended play, for the longest recording time on a single tape).



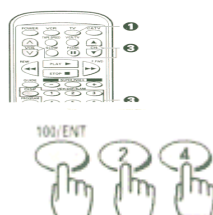
Remote Control Illustration.

.....

4 Press the CH (▲/▼) button or the number buttons to select the channel you want to record.



Example: Select channel 8.

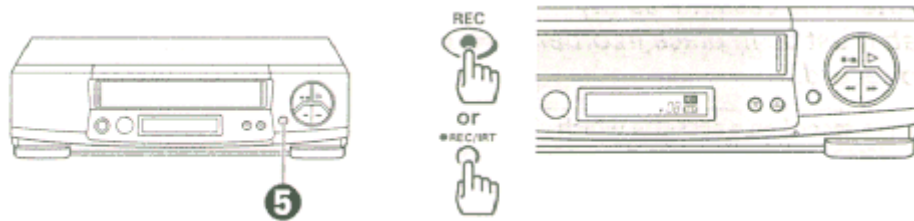


- 100/ENT and (2) and (4) for the channel 124.

Remote Control Illustration.

5 Press the REC button on the remote control or the REC/IRT button on the VCR.

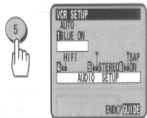
Recording will start and the **REC** indicator on the VCR will light up.



Notes:

- Recording will not start unless the cassette has the safety tab in place. When a cassette without a safety tab is inserted, the cassette will be ejected automatically.
- Press the PAUSE button to set the VCR to the recording pause mode. Press the button again to re-start recording.
- If you stay in PAUSE mode for more than 5 minutes, the VCR automatically switches to STOP mode to protect the tape.

6 Press the STOP button to finish recording.



The REC indicator on the VCR will light off.

RECORDING A PROGRAM -RECORDING TIPS

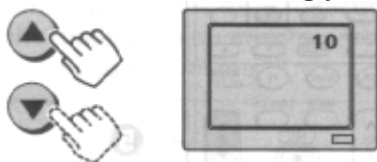
● To watch one program while recording another

1 Once you have set the VCR for recording, press the VCR/TV button.

The VCR indicator disappears. Now, you will be viewing through your TV only.



2 Switch channels using your TV controls or the VCR remote, if it's programmed to control your TV.



Remote Control Illustration.

Notes:

- You can check on the recording by pressing **VCR/TV** again. This will switch you back to viewing through the

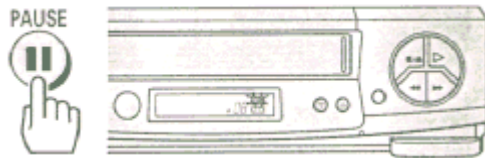
VCR, and you'll see the program you are recording.

• **If you're hooked up with an audio/video cable:** Switch the TV from **AUX** or **VIDEO** mode back to the TV mode, then select the channels you want to watch, as described in Step 2. Switch TV back to **AUX** or **VIDEO** to monitor your recording.

● To change the channel being recorded

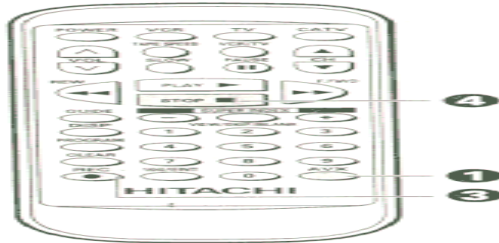
1 Press the PAUSE button to stop the recording temporarily.

The REC indicator on the VCR will flash during Record/Pause.



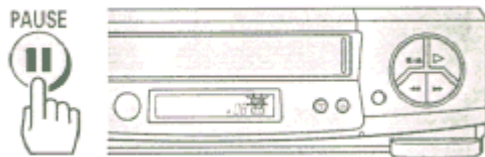
Remote Control Illustration.

2 Press the CH (▲/▼) button or number buttons to change the channel to the one you prefer.



3 Press the PAUSE button to continue recording.

The REC indicator on the VCR will stop flash.



Automatic Indexing

Your VCR will automatically create an invisible "**INDEX**" mark every time you press the REC button while recording. During playback, the Index Search feature will let you move through a tape that has several recordings on it by searching for the "**INDEX**" mark. See Page 27, "**Locating the beginning of a recorded program (INDEX SEARCH)**".

● To record a Second Audio Program (SAP)

Some stations transmit a Second Audio Program - such as in a second language. If a station broadcasts in SAP, the SA indicator will display on your TV screen.

You can set the VCR to record a second audio program by activating the SAP option.

How to set the SAP option.

Press the GUIDE button.



2 Press the (2) button to select the VCR SETUP operation.

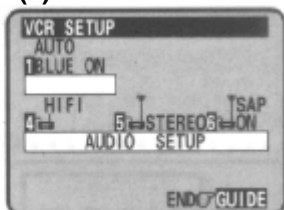


Remote Control Illustration.

3 Press the (6) button to set the SAP option to "ON".



4 Press the (5) button to set the STEREO/MONO option to "STEREO".



5 Press the GUIDE button to end the setting.

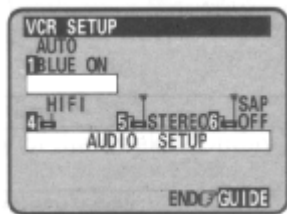


6 Follow the Step 1 through 6 on "Basic Recording Steps" on pages 32 and 33.

● Stereo vs. mono sound

When you select the STEREO option in the initial setup operation, your VCR records in stereo any station that broadcasts stereo sounds. When a TV channel broadcasts in stereo, you'll see a stereo indicator on the TV screen.

Set to MONO if the stereo signal is weak and the sound is too "noisy".

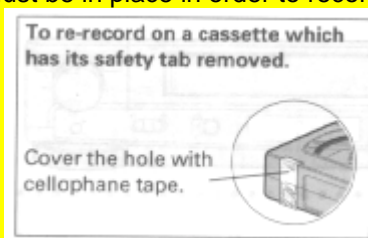


Note: When you select MONO, sound is recorded as mono even when a channel broadcasts in stereo.

DELAYED RECORDING

● Setting the VCR to record later

Note: The cassette safety tab must be in place in order to record.



With the delayed recording feature, you can set this VCR so that it automatically turns on and records programs whenever you like - without your being around! You can record a program one time only, or you can automatically record a show every weekday or every week at the same time. You can preset as many as 8 timed recordings at once.

● Before you begin

Assemble the information you need for timed recording:

- Be sure that the clock is set to the correct time
- Date and day of the program
- Starting time
- Ending time
- Channel to be recorded
- Blank or erasable videocassette (safety tab intact)

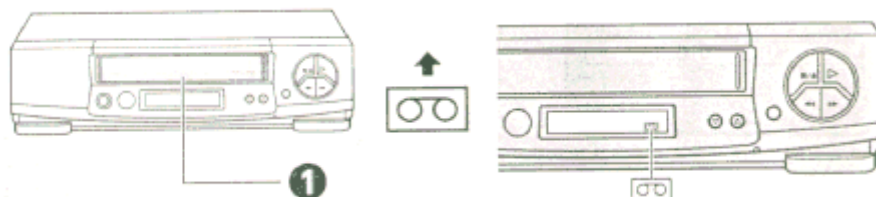
Delayed Recording Steps

You set up the delayed recording using the on-screen Easy Guide System.

1 Insert blank or erasable tape.

The power comes on automatically and the tape indicator lights on the display.

- If a cassette without its safety tab is inserted, playback starts automatically and timed record won't operate.



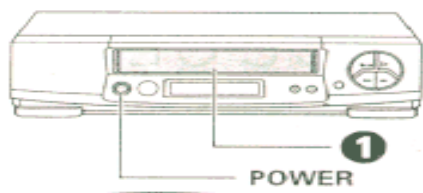
2 Turn on the TV and select the video channel (3 or 4).

Or, if you are hooked up with an audio/video cable, set the TV to AUX or VIDEO.



Remote Control Illustration.

3 Press the PROGRAM button for delayed recording.

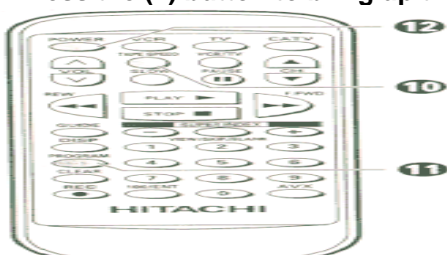


Types of Delayed Recordings

ONE TIME	Records one show at a particular date and time.
DAILY	Records a show at the same time every day of the week, Monday through Friday.
WEEKLY	Records a show at the same day and time every week.

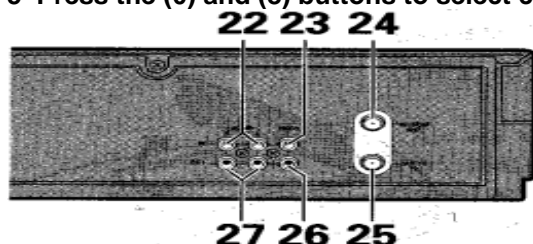
EXAMPLE: Set the VCR to record "**one time**", a program on **Channel 8** that starts at **6:00 PM** and ends at **6:30 PM** on **7/10/98**, at the **EP** recording speed.

4 Press the (1) button to bring up the screen for One Time Recording



Remote Control Illustration.

5 Press the (0) and (8) buttons to select channel 8.



Note: Remember to press 0 before single-digit channel numbers, times, and dates.

• If you want to record from an external equipment, press the AVX button to select LINE instead of the channel number.

PAUSE

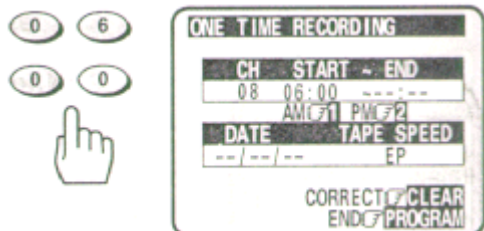


REC

LINE

- If you make a mistake when entering digits, press the CLEAR button repeatedly to display "-" for the incorrect digit, then reenter the correct digit.

6 Enter the start time by pressing (0), (6), (0) and (0) for 6:00.



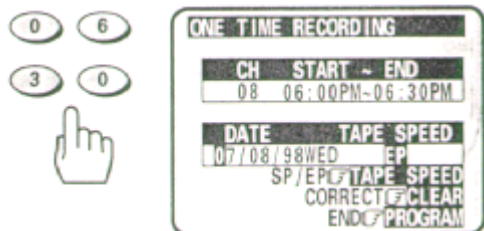
Remote Control Illustration.

7 Press the (2) button for PM.



8 Enter the end time by pressing (0), (6), (3) and (0) for 6:30.

The VCR automatically selects PM for you.



9 Enter the recording date by pressing (0), (7), (1) and (0) for 7/10/98.

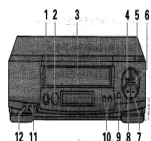


Remote Control Illustration.

10 Press the TAPE SPEED button to select the recording speed EP.



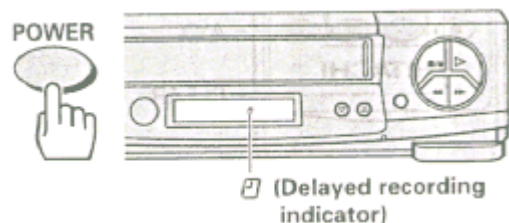
11 Press the PROGRAM button to set the program in memory.



12 Press the POWER button to turn off the VCR.

The TIMER (delayed recording) indicator will display on the VCR.

This tells you that the VCR will automatically record at the times and dates you have programmed.



Note: If a cassette has not been inserted or a cassette without safety tab has been inserted, the delayed recording indicator will flash to warn you. The cassette without safety tab will be ejected automatically. Be sure to insert a cassette with safety tab intact.

When you have set up all the timed recordings you want:

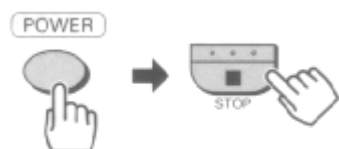
- Don't forget to load a videocassette (with the safety tab still attached) to record on.
- If you have installed a cable box on the cable box and select the channel you want to record on the cable box (08 in this case) before recording starts.

Note: You can correct any item entered as you go by pressing the CLEAR button repeatedly until the digit to be corrected changes to white dash "-" on the screen. Then enter the correct number. Illogical times and dates won't be accepted.

To stop recording while in the timed recording mode:

1 Press POWER button.

2 Press the STOP button within 10 seconds.



- This can be done either on the VCR or with the remote control.

Remote Control Illustration.

Important: Your timed recording settings take effect when you turn off the power on the VCR.

PROGRAM REVIEW

● Reviewing what you have programmed

You can look back over any of the recordings you have preset and if you need to, clear out any of the programs. Normal programs will clear automatically once recording is complete, but daily and weekly setting must be cleared out manually.

1 Press the **GUIDE** button.

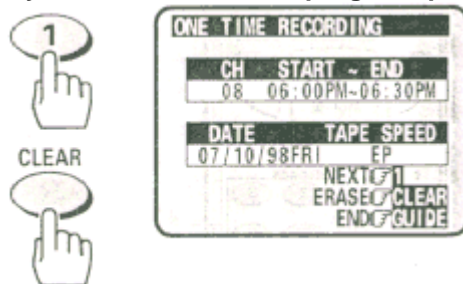
The main on-screen menu will appear on the TV screen.



2 Press the **(1)** button for the **PROGRAM REVIEW** option.

This brings up the screen setting for the first program.

If you want to clear this program, press the **CLEAR button to remove this program.**



Remote Control Illustration.

3 Keep pressing the **(1)** button to cycle through all the programs you have preset.

- The screen will display the next program, if there are more, or it will switch back to the main menu.



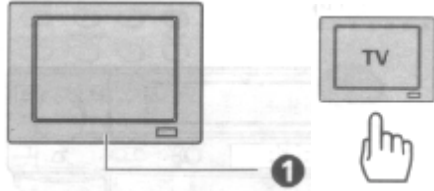
4 Press the **GUIDE** button to end.



USING THE VCR REMOTE TO CONTROL YOUR TV

Using the VCR remote to control your TV.

1 Turn on the TV.



2 Press the "TV" button on remote control.

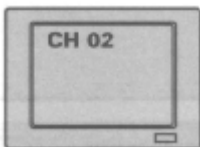


3 Point VCR remote control toward TV.



Remote Control Illustration.

4 Press buttons corresponding to the functions available on your TV remote control.



Note: This function is available on Hitachi TV. Some of Hitachi TV does not work with this remote.

INTEGRATING YOUR STEREO SYSTEM WITH YOUR VCR

● Hookup

When your VCR is connected to a stereo system, you can:

- Make high quality "audio only" recordings for up to 6 hours (on a T-120 video cassette tape).
- Receive quality stereo sound from your VCR through your stereo system.
- Use the VCR as an extra audio tape deck for dubbing.

Hook-up Illustration.

● To record from stereo

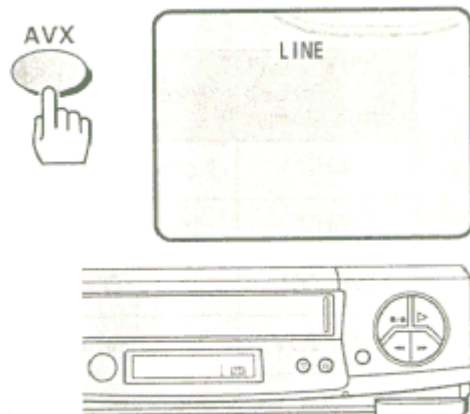
BEFORE YOU BEGIN...

Remote Control Illustration.

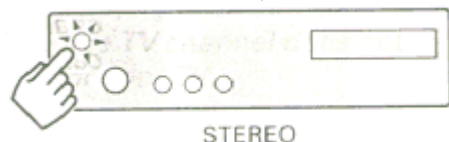
- Make sure the VCR is connected to your stereo system, as shown above.

- Make sure that "STEREO" audio is selected from the VCR Set-Up Menu, as shown on page 35, of "RECORDING OPERATIONS" section, "Stereo vs. mono sound".
- Select VCR recording speed (SP or EP) as shown on page 32, of "RECORDING OPERATIONS" section, "Basic recording steps".

1 Press the AVX button on remote control, so that LINE appears on the display.



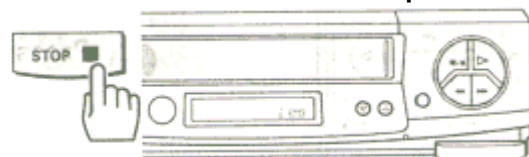
2 Turn on the stereo, and start the selection you wish to record.



3 Press the REC button on VCR or REC button on the remote control to start recording.



4 Press the STOP button to stop recording.



COPYING TAPES FROM A CAMCORDER

● Hook-up

You may use your VCR to copy tapes from any camcorder onto standard VHS cassette tapes.

Note: If your camcorder is not stereo (has only one audio plug), connect it into the AUDIO IN-L input on the back of the VCR.

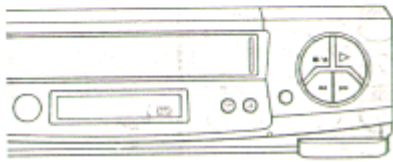
* It is not necessary to connect the S-VIDEO jack
Camcorder Hook-up Illustration.

● To copy from a camcorder

BEFORE YOU BEGIN...

Connect the camcorder's AV output cable to the audio/video jacks on the back of your VCR.

1 Press the AVX button twice on remote control, to display LINE on the TV display.



2 Press the REC, then PAUSE buttons on the VCR remote control. The VCR will go into Record/ Pause.



Remote Control Illustration.

3 Press the PLAY button on the camcorder. You will see the camcorder tape being played on the TV.

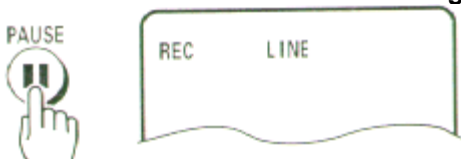


4 When you see the part of the Camcorder tape you wish to copy, press the PAUSE button again to release pause and start copying the camcorder tape.

The REC indicator on the VCR will stop flash.

• Press the STOP button to finish recording.

The REC indicator on the VCR will light off.



COPYING FROM ONE VCR TO ANOTHER VCR (DUBBING)

● Hookup

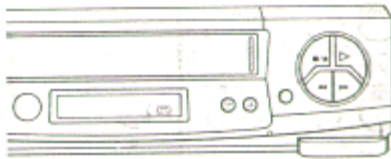
If you have two VCRs, you may use one VCR to record a tape that is being played back in the other VCR.

VCR to VCR Hook-up Illustration Rear Panel

VCR Front Panel Illustration

● To copy from one VCR to another VCR

1 Press the AVX button on the remote control of VCR-1 so that L (line) appears in the display.

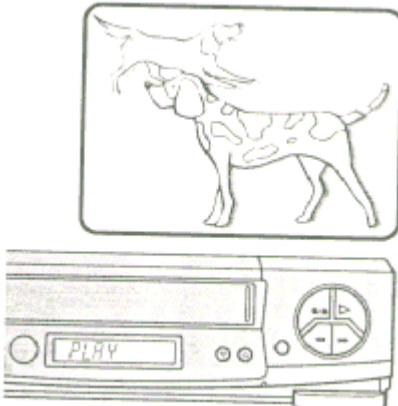


Remote Control Illustration.

2 Press the REC, then PAUSE buttons on VCR-1. The VCR will go into Record/Pause.



3 Press the PLAY button on VCR-2. You will see the taped program being played on the TV.



4 When you see the part of the program you wish to record, press the PAUSE button on VCR-1 again to release pause and start recording.

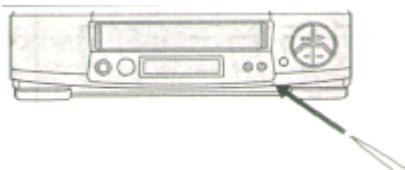
- Press the STOP button to finish recording.
 - Press the STOP button to finish recording.
- The REC indicator on the VCR will light off.

PAUSE



PROBLEM GUIDE / MAINTENANCE

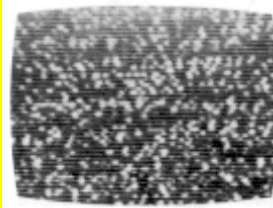
● Problem guide

No power	<ul style="list-style-type: none"> • Make sure the VCR is plugged into an AC outlet.
Remote control doesn't work	<ul style="list-style-type: none"> • Make sure the batteries are fresh, and properly installed.
Won't record	<ul style="list-style-type: none"> • Safety tab has been removed from cassette (VCR will automatically eject the tape).
Won't play back	<ul style="list-style-type: none"> • Make sure the TV/VCR switch is set to the VCR mode. • Make sure the TV is set to the VCR channel (3 or 4) or AUX (if using direct audio/video hookup).
Won't make timer recordings	<ul style="list-style-type: none"> • The VCR power must be turned off to activate timer recording. • Clock is not set correctly. • Programs entered incorrectly. • Programs exceed the length of the cassette. Use the EP recording speed for maximum programming. • Safety tab has been removed from cassette.
Snowy picture in playback	<ul style="list-style-type: none"> • Snow or picture noise is normal during search, still, and slow Playback. • Head cleaning may be required. • Tape is worn or of inferior quality - adjust tracking controls.
Snowy picture in normal TV viewing	<ul style="list-style-type: none"> • Check antenna or cable connections.
Clock shows --:-- on the TV display.	<ul style="list-style-type: none"> • Power has been interrupted - reset the clock. • Reset the clock.
Erratic VCR display	<ul style="list-style-type: none"> • Push the reset switch with a sharp pointed instrument (pen, toothpick, etc.). 

● Maintenance

Regular periodic maintenance is required to maintain optimum VCR performance. Such maintenance and adjustments should not be attempted by the user. Please consult your service dealer for further information.

NOTE: Dirt accumulation on the video heads will cause the playback picture to become noisy. **The VCR may require the video heads to be professionally cleaned by a qualified service dealer.**



TECHNICAL SPECIFICATIONS

● Technical specifications

Format:	VHS
Video Signal System:	NTSC color EIA standard
Record/Playback System:	Video: 4 head Audio: VHS Hi-Fi stereo record/playback system
Tape Speed:	33.35 mm/sec (SP), 16.67 mm/sec (LP) (playback only), 11.12 mm/sec (EP)
RF Input:	UHF/VHS 75 ohm
Tuner:	USA: 181 channel tuning ability* (125 cable channels) Canada: 178 channel tuning ability* (122 cable channels)
Type:	Auto programming frequency synthesis
Power Input:	AC 120V 60 Hz
Power Consumption:	20W nominal
Cabinet Size:	14-15/16" (W) x 3-11/16" (H) x 10-13/16" (D) 38.0 cm (W) x 9.3 cm (H) x 27.5 cm (D)
Weight:	7.7 lbs. (3.5 kg)
Storage Temperature:	-4°F to 131°F
Operating Temperature:	41°F to 104°F
Accessories:	1 coaxial cable (Part No. EW10251) 1 remote control unit (Part No. HL10991), 2 AA batteries

* Check your cable company's compatibility requirements.

For information about how to obtain these and other HITACHI accessories, please call HiTRON, Inc. TOLL FREE at 1-800-995-4500 (in the continental United States). For ALASKA and HAWAII, please contact the nearest Hitachi Regional Office.

Design and specifications subject to change without notice.

Hitachi Service Hotline

Authorized Hitachi service facilities are available throughout the US and Canada. For the location nearest to you, call the Hitachi Service Hotline at one of these numbers:

In the continental U.S.A

DIAL TOLL FREE

7 days a week, 24 hours a day

1-800-HITACHI

(1-800-448-2244)

You must state your zip code when calling

In Canada

MONTREAL	514-956-9882
TORONTO	905-821-4545
VANCOUVER	604-214-0777